

Claim Listing:

1-16. (Cancelled)

17. (Previously presented) The system of claim 22, which further comprises a reservoir that continuously supplies the coating material source with coating material.

18. (Cancelled)

19. (Previously presented) The system of claim 17, wherein the reservoir is a fermentor containing cells.

20. (Previously presented) The system of claim 17, wherein the coating material is circulated between the reservoir and the coating material source.

21. (Previously presented) The system of claim 22 wherein the surface of the second roller comprises a plurality of grooves.

22. (Previously presented) A system for coating a stent having a tubular portion with an outer surface, wherein the system comprises:

a coating material source containing a coating material comprising a solvent and a biologically active material;

a first roller having a surface;

a doctor blade in proximity to the first roller surface positioned to remove excess coating material from the first roller surface; and

a second roller having a surface, wherein:

the first roller is situated relative to the coating material source so that the coating material in the coating material source is transferred to the first roller surface;

the first roller and second roller are situated relative to each other so that the first roller transfers the coating material transferred to the first roller surface to the second roller surface, and

the second roller is situated relative to the tubular portion so that the second roller transfers the coating material transferred to the second roller surface to the outer surface of the tubular portion.

23. (Original) The system of claim 22, wherein the surface of the second roller is rougher than the surface of the first roller.

24. (Original) The system of claim 22, wherein the surface of the first roller contacts the surface of the second roller and the surface of the second roller contacts the outer surface of the tubular portion.

25. (Previously presented) The system of claim 22, further comprising a supplemental mechanism for removing excess coating material from the surface of the first roller.

26. (Previously presented) The system of claim 25, wherein the supplemental mechanism is at least one of a metering roller or an air knife.

27. (Original) The system of claim 22, further comprising an energy source for converting the coating material applied to the outer surface of the tubular portion into a coating.

28. (Original) The system of claim 27, wherein the energy source is a heater.

29. (Original) The system of claim 27, wherein the energy source is an ultraviolet source.

30-35. (Cancelled)

36. (Previously presented) The system of claim 22, wherein the biologically active material comprises a genetic material.

37. (Previously presented) The system of claim 22, wherein the biologically active material comprises an antibiotic or an antiproliferative agent.

38. (Previously presented) The system of claim 22, wherein said first roller surface comprises an outer surface.

39. (Previously presented) The system of claim 22, wherein a distance between the first roller and the second roller is adjustable to control the thickness of the coating material.